

WE CLAIM

1. A method of removing a heated atmosphere from a machine enclosure, the method comprising energizing a flow of water from a water spray within a housing to create a zone of reduced pressure in the housing in fluid communication between the machine interior and the housing, the reduced pressure introducing fresh atmosphere into the machine while removing the heated atmosphere. ✓
2. The method of claim 1 wherein the machine comprises a batch loading dishwashing machine and the heated atmosphere comprises air comprising water vapor at a temperature of greater than 140°F.
3. The method of claim 1 wherein the heated atmosphere comprises air comprising water vapor at a temperature of greater than 170°F.
4. The method of claim 1 wherein the water spray comprises a source of water between about 35°F and 100°F and between about 10 and 60 psi.
5. The method of claim 4 wherein the water spray comprises a source of water between about 35°F and 70°F and between about 30 and 60 psi.
6. The method of claim 1 wherein the water spray comprises a spray nozzle with a spray angle of between about 15° and 50° which is sufficient to allow the spray to contact the side walls of the discharge pipe and a flow rate between about 0.5 and 10 gallons per minute at a supply pressure between about 10 and 60 psi.
7. The method of claim 6 wherein the water spray comprises a spray nozzle with a spray angle of about 30° and a flow rate of about 3 gallons per minute at a supply pressure of about 40 psi.

8. The method of claim 1 wherein the temperature of the machine interior is reduced to less than 120°F.

5 9. The method of claim 1 wherein the water spray operates for a duration of 10 to 30 seconds at the end of a final rinse period.

10 10. The method of claim 1 wherein the water spray operates intermittently as needed.

11. A dishwashing machine, using water of elevated temperature, that can be cooled after completing one or more cycles, the machine comprising:

(i) a machine enclosure comprising at least one inlet in fluid communication between the machine interior and the machine exterior, and

(ii) extraction means comprising a housing comprising a water jet and at least one conduit in fluid communication between the machine enclosure interior and the housing, the spray nozzle providing a water spray effective to create a zone of reduced pressure within the housing for removing the hot humid atmosphere from within the machine enclosure while causing entry of fresh air into the machine through the inlet.

12. The dishwasher of claim 11 wherein the water jet comprises a source of water between about 35°F and 100°F and between about 10 and 60 psi.

13. The dishwasher of claim 12 wherein the water jet comprises a source of water between about 35°F and 70°F and between about 30 and 60 psi.

